

Message Text

CONFIDENTIAL

PAGE 01 MOSCOW 09290 281306Z
ACTION OES-07

INFO OCT-01 EUR-12 ISO-00 ACDA-07 CIAE-00 INR-07 IO-13
L-03 NSAE-00 NSC-05 EB-07 NRC-05 FEAE-00 DODE-00
SS-15 SP-02 /084 W
-----110579 281309Z /46

R 281255Z JUN 77
FM AMEMBASSY MOSCOW
TO SECSTATE WASHDC 9206
INFO ERDA WASHDC
ERDA GERMANTOWN MD

C O N F I D E N T I A L MOSCOW 9290

ERDA FOR HILL AND SIEVERING

E.O. 11652: GDS
TAGS: ENRG, EQIP, EALR, TGEN, UR
SUBJECT: NEW TYPE TURBINES FOR SOVIET ATOMIC POWER PLANTS

1. BEGIN UNCLASSIFIED. A HALF-MILLION KILOWATT HEAD TURBINE (GOLOVNAYA TURBINA) OF A NEW TYPE HAS BEEN SENT TO THE NOVovoronezh ATOMIC POWER STATION BY KHAR'KOV'S KIROV PLANT, ACCORDING TO THE JUNE 22 CENTRAL PRESS. THE TURBINE'S SHAFT TURNS AT 1500 RPM -- TWICE AS SLOWLY AS NORMAL -- AN ACCOMPLISHMENT THAT TASS SAYS SIGNIFICANTLY REDUCES VIBRATION AND CENTRIFUGAL FORCE AND MAKES IT MORE RELIABLE AND ECONOMICAL THAN PREVIOUS ONES.

2. THE SAME FACTORY IS ALSO WORKING ON A ONE MILLION KILOWATT TURBINE DESTINED FOR THE SOUTH UKRAINIAN ATOMIC POWER STATION. THE CORE OF THE GIGANTIC HIGH-PRESSURE CYLINDER IS NOW BEING ASSEMBLED; SIX THOUSAND TONS OF STEAM PER HOUR ARE TO PASS THROUGH ITS METALLIC CHAMBER. LIKE THE ONE MENTIONED ABOVE, ITS SHAFT IS TO ROTATE TWICE AS SLOWLY AS USUAL. THE DESIGN IMPROVES EFFICIENCY AND ECONOMY "COMPARED WITH LESS POWERFUL SERIALLY-PRODUCED
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ATOMIC-POWER-STATION TURBINES," ACCORDING TO TASS VESTNIK ON JUNE 17. END UNCLASSIFIED

3. BEGIN CONFIDENTIAL. BY THE WORDING OF THE ANNOUNCEMENTS BOTH TURBINES SOUND LIKE INDIVIDUAL JOBS, AND IT APPEARS THAT SERIAL PRODUCTION HAS NOT BEGUN. ERNST VOLGENAU, DEPUTY DIRECTOR OF THE US NUCLEAR REGULATORY COMMISSION,

IS SCHEDULED TO VISIT NOVOVORONEZH THIS WEEK. WE ARE TELLING
HIM ABOUT THESE NEWS STORIES AND WILL SEE WHAT HE CAN LEARN.
END CONFIDENTIAL.
MATLOCK

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NNN

Message Attributes

Automatic Decaptioning: X
Capture Date: 01-Jan-1994 12:00:00 am
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: EQUIPMENT, NUCLEAR POWER PLANTS
Control Number: n/a
Copy: SINGLE
Sent Date: 28-Jun-1977 12:00:00 am
Decaption Date: 01-Jan-1960 12:00:00 am
Decaption Note:
Disposition Action: RELEASED
Disposition Approved on Date:
Disposition Case Number: n/a
Disposition Comment: 25 YEAR REVIEW
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Disposition History: n/a
Disposition Reason:
Disposition Remarks:
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Subject: NEW TYPE TURBINES FOR SOVIET ATOMIC POWER PLANTS
TAGS: ENRG, EQIP, EALR, TGEN, UR
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